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Derwent Title: **Door collision warning for motor vehicle involves outputting warning signal if object distance is less than warning distance computed as function of detected object speed and defined reaction time**

Original Title: *Family D5 102 61622 A1* EP1433657A1: Method and apparatus for door collision warning of a vehicle

Assignee: **VOLKSWAGEN AG** Standard company  
Other publications from **VOLKSWAGEN AG (VOLS)**...

Inventor: **BARTELS -; BARTELS A;**

Accession/Update: **2004-490151 / 200635**

IPC Code: **B60Q 1/50 ; B60Q 1/52 ; G08G 1/16 ; B60Q 1/26 ; B60Q 1/48 ; B60Q 9/00 ; G08B 1/08 ;**

Derwent Classes: **Q16; T07; X22;**

Manual Codes: **T07-E**(Anti-collision systems) , **X22-J05**(Anti-collision and parking aids) , **X22-X05**(Electrical aspects of doors, boots, windows)

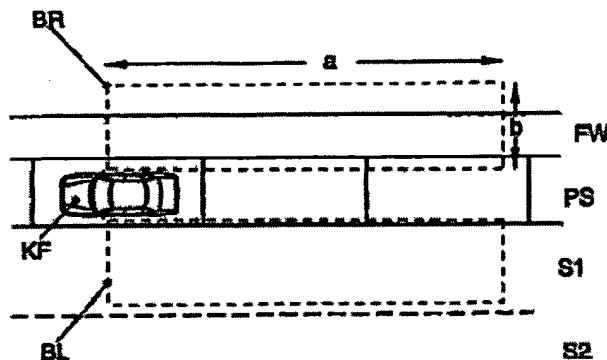
Derwent Abstract: (EP1433657A) **Novelty** - The method involves monitoring at least the space (BR) to the side and rear of the driver's door to a defined width (b) and depth (a), detecting an object in the monitored space, determining its distance and speed, computing a warning distance as a function of the object speed and a defined reaction time and outputting a warning signal if the object distance is less than the warning distance. **Detailed Description** - AN INDEPENDENT CLAIM is also included for the following:

(a) a door collision warning system for a motor vehicle.

**Use** - For warning the driver of a stationary motor vehicle about a potential collision of an object with a vehicle door.





**Advantage** - Overcomes certain disadvantages of conventional arrangements, e.g. door braking or locking while an object is still far from the door.

Images:



**Description of Drawing(s)** - The drawing shows a schematic representation of the space to the side and rear of the driver's door to be monitored vehicle KF, space to side and rear of the driver's door BR, space to side and rear of the passenger's door BL, defined width of space b, depth a [Dwg.1/3](#)

## Family:

PDF Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
 <b>EP1433657A1</b> *	2004-06-30	200447	16	German	B60Q 1/52
Des. States: (R) AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
Local appls.: EP2003000026270 Filed:2003-11-14 (2003EP-0026270)					
 <b>DE50303017G</b> =	2006-05-24	200635		German	B60Q 1/50
Local appls.: Based on EP01433657 (EP 1433657) DE2003000503017 Filed:2003-11-14 (2003DE-0503017) EP2003000026270 Filed:2003-11-14 (2003EP-0026270)					
 <b>EP1433657B1</b> =	2006-04-19	200630	14	German	B60Q 1/50
Des. States: (R) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR					
Local appls.: EP2003000026270 Filed:2003-11-14 (2003EP-0026270)					
 <b>DE10261622A1</b> =	2004-07-08	200447	12	German	G08G 1/16
Local appls.: DE2002001061622 Filed:2002-12-27 (2002DE-1061622)					

INPADOC  
Legal Status:[Show legal status actions](#)First Claim:  
[Show all claims](#)

1. Verfahren zur Warnung eines Fahrers eines stehenden Kraftfahrzeugs vor einer möglichen Kollision eines Objekts mit einer Fahrzeughür des Kraftfahrzeugs (KF), wobei das Verfahren die Schritte aufweist:

- Überwachen von zumindest dem fahrerseitigen seitlichen Rückraum (BR) einer vorgegebenen Breite (b) und Tiefe (a),
- Erfassen eines Objektes in dem zu überwachenden Seitenrückraum (BR, BL), Bestimmen des Abstands und der Geschwindigkeit des erfaßten Objekts,
- Berechnen einer Warndistanz als Funktion der Objektgeschwindigkeit und einer vorgegebenen Gesamtreaktionszeit, und
- Ausgeben eines Warnsignals, wenn der Objektabstand kleiner ist als die Warndistanz.

## Priority Number:

Application Number	Filed	Original Title
DE2002001061622	2002-12-27	

## Title Terms:

DOOR COLLIDE WARNING MOTOR VEHICLE OUTPUT WARNING SIGNAL  
OBJECT DISTANCE LESS WARNING DISTANCE COMPUTATION FUNCTION  
DETECT OBJECT SPEED DEFINE REACT TIME

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